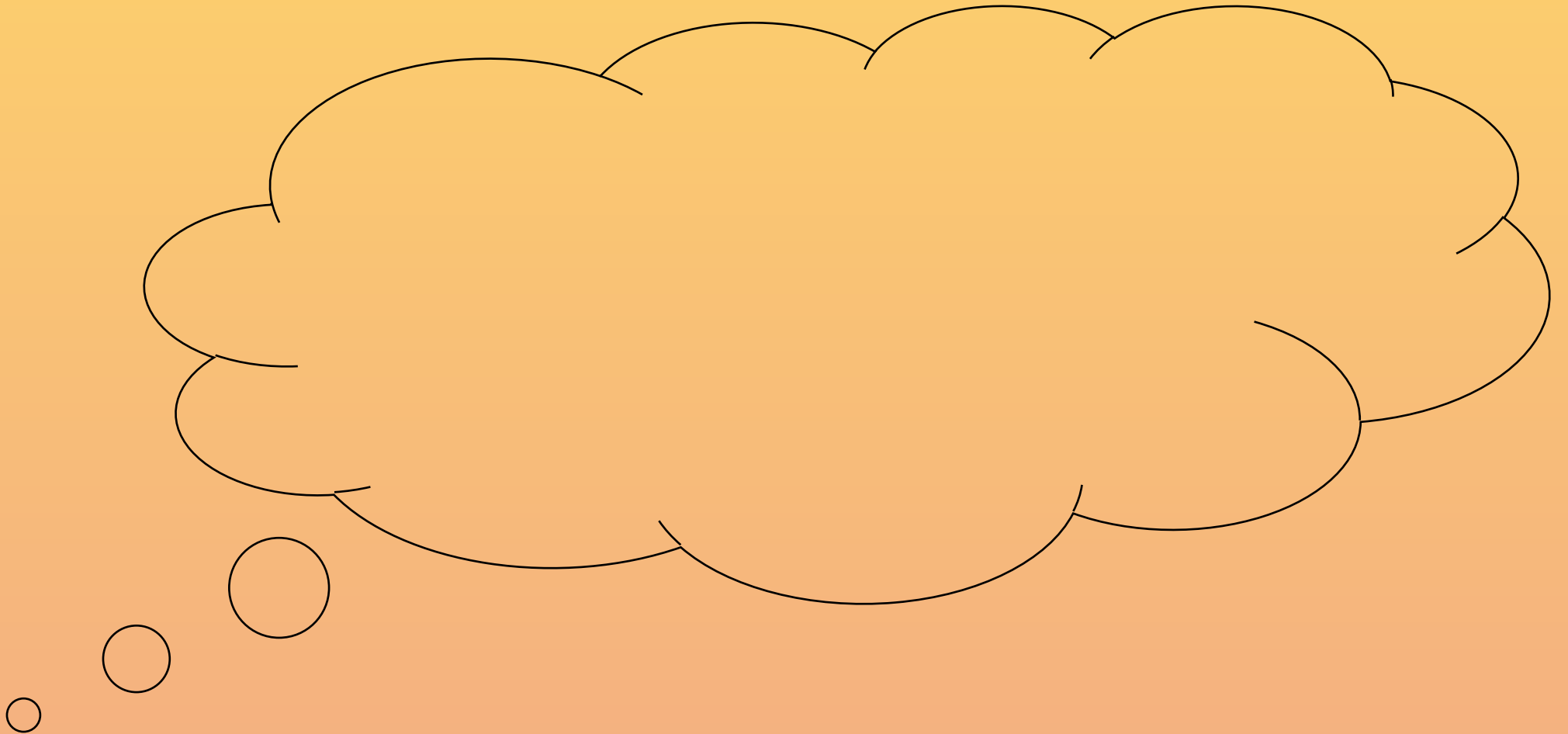


# Science

WALT identify parts of a complete  
circuit

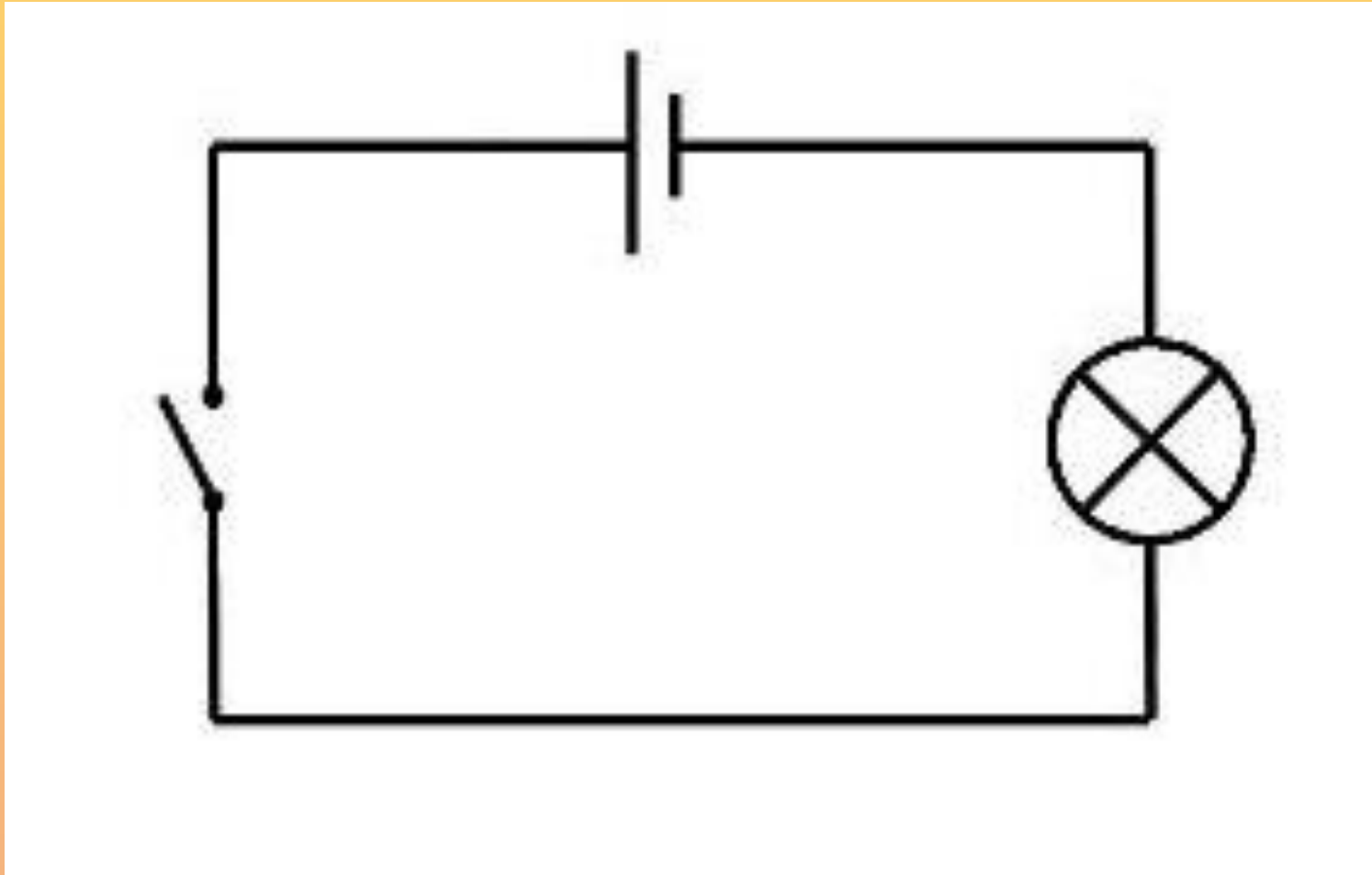
Thursday 4<sup>th</sup> June 2020

What do you think is needed to create a complete circuit? Draw a diagram in your book using the correct symbols.



Correct! You need a cell, a switch and a bulb, all connected.

**cell**



**bulb**

**Switch**

(needs to be closed for the circuit to be complete)

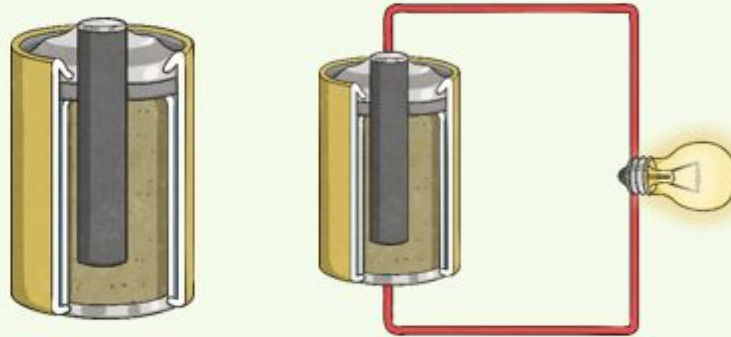
# Battery or cell?

In everyday language we call a single cell a 'battery' but this is not the correct scientific usage.



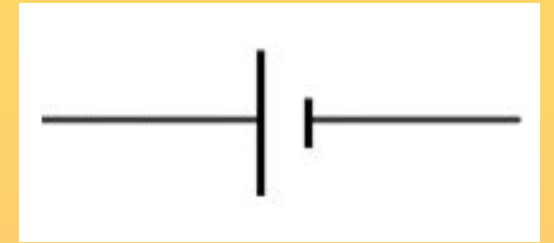
Scientifically, this is a cell. It is a single unit, containing two electrodes and an electrolyte.

Electrodes are charged electrical conductors inside a cell. Each cell has one positive and one negative electrode.



An electrolyte is a chemical that reacts with the electrodes to produce an electrical current.

A battery is the scientific name for a collection of cells joined together.



This is the symbol for a single cell.



This is the symbol for several cells, called a battery.

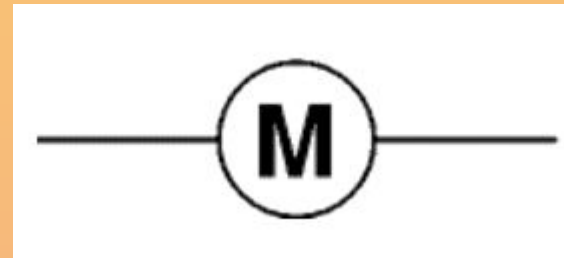
# Buzzers and motors

Other symbols we have learnt include a buzzer. A buzzer is like a bulb, if the circuit is complete, electricity will make it buzz. A motor is like a buzzer, expect it **moves** instead of making a sound.

Look at these children completing their circuit with a buzzer:

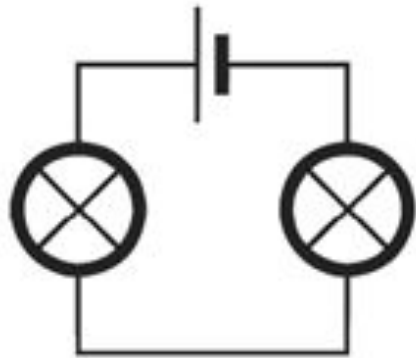
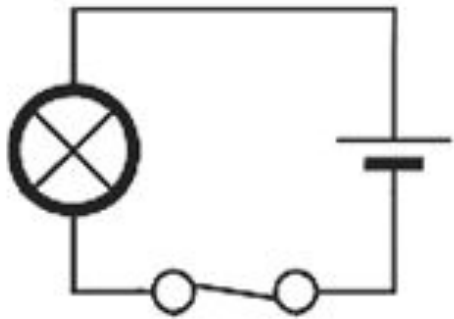
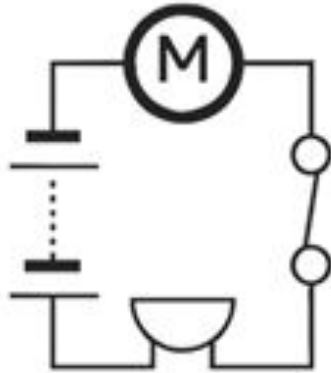
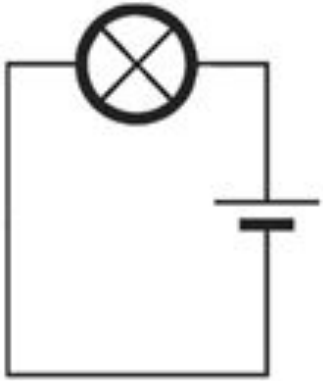
<https://www.youtube.com/watch?v=CNYOBntuOmY>

This is the symbol for a buzzer. This is the symbol for a motor.



# Task 1

Draw these circuits in your books. Label each symbol with the correct name.

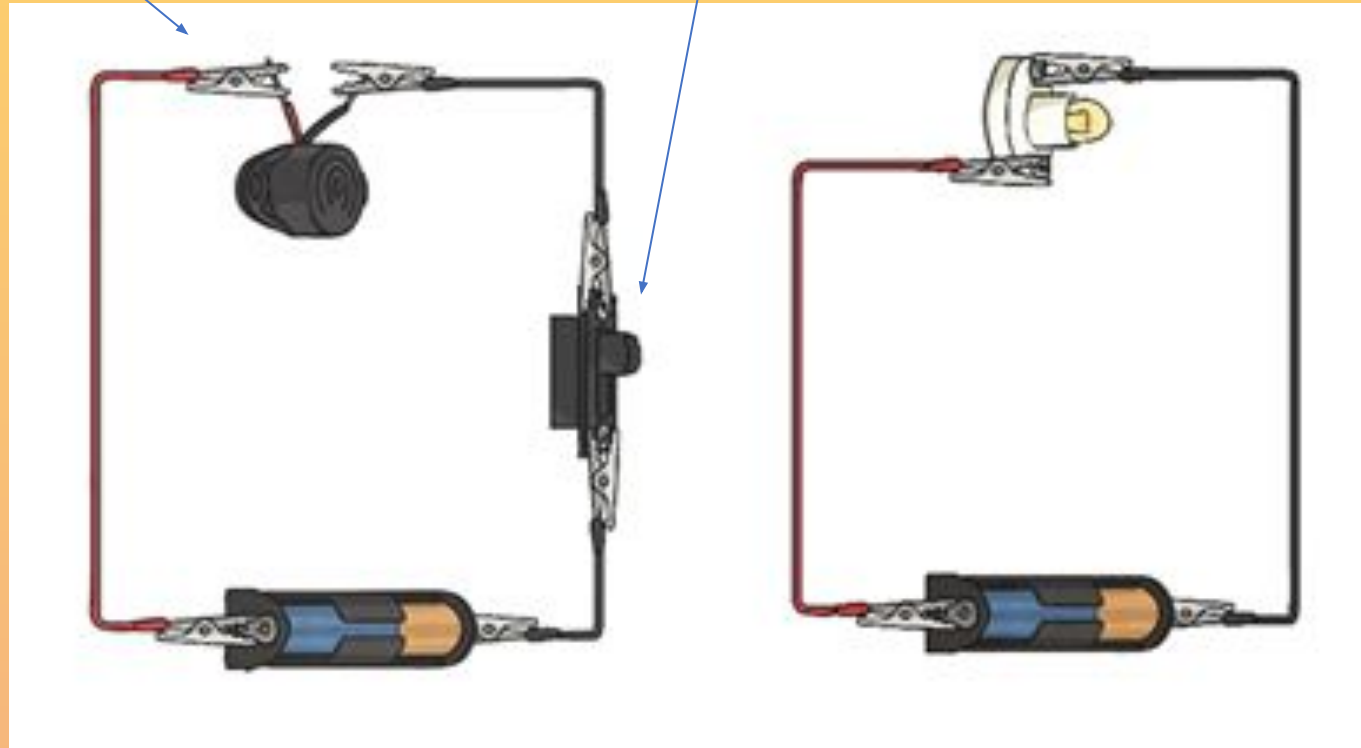


## Task 2

Draw these circuits in your books using correct symbols.

Motor

Buzzer

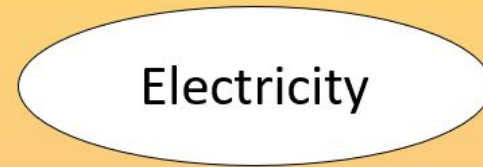


# Task 3 - Recap

Go back to your vocabulary map. Are there any words that you have learnt today?

Change the colour of the words that you know. You could even write a little definition next to it so you don't forget!

- In your books (over 2 pages) start a new vocabulary map with the title 'Electricity.'



Current  
Alternating current  
Direct current  
Battery  
Cell  
Bulb  
Wire  
Open switch  
Closed switch  
Motor  
Circuit  
Voltage

- Here is a list of vocabulary that we will be using in this unit of work. Write them all around your vocabulary map.
- In one colour felt pen or pencil, underline the words you **do** know, and in another colour, underline the words you **don't** know.